MakeBaseApp and SNL Exercises

This example uses an instance of the "example" IOC application template, generated using makeBaseApp.pl

1. Create a <top> directory for your application under your home directory:

cd; mkdir example; cd example

2. Create an example application called "testApp":

/opt/epics/base-3-14-11/bin/linux-x86/makeBaseApp.pl -t example test

3. Create an IOC directory file for "ioctest":

/opt/epics/base-3-14-11/bin/linux-x86/makeBaseApp.pl -i -t example test

4. Edit your configure/RELEASE file and change the SNCSEQ line to this:

SNCSEQ=/opt/epics/modules/soft/seq

5. Build the application:

make

6. Prepare to execute the application:

cd iocBoot/ioctest

chmod +x st.cmd

7. Edit st. cmd and remove the # from the seq line, so that it looks similar to:

seq sncExample, user=userHost

8. Execute the application (finally...)

./st.cmd

You should now see an epics> prompt, and be able to use the commands dbl, dbpr, etc.

- 9. Familiarize yourself with the contents of the startup file, the example database files in **testApp/Db** and the example sequence program in **testApp/src/sncExample.stt**Create an EDM screen to display the value of the counting record.
- 10. Verify proper operation of the sequence program: Run the application and explore the **seqShow**, and **seqChanShow** commands
- 11. Add a stringin record to the example database and modify the sequence program to update that record's value with the current state name. Display that new record on the EDM screen.
- 12. Add an error state. If the sequence remains in the high state for more than 5 seconds, it should enter the error state and stay there until the user presses a (new) reset button on the EDM screen. Add the button and additional records as necessary.
- 13. Verify operation: Rebuild the application and restart the IOC. Add an EDM menu control for the SCAN field of the example's saw-tooth record so that you can see whether the error state is entered if you slow down the counter.